

# SERVICE MANUAL

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COMPACT DISC /  
STEREO CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000  
BASIC CD MECHANISM : DA11T3C

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- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", (S/M Code No. 09-001-426-7T1).

## SPECIFICATIONS <U>

### Tuner section

#### Frequency range

**FM :** 87.5 MHz - 108.0 MHz  
Antenna : Rod antenna  
**AM :** 530/531 kHz - 1,710/1,602 kHz  
(10/9 kHz/step)  
Antenna : Ferrite bar antenna

### Deck section

#### Track format

#### Frequency range

#### Recording system

#### Erasing system

#### Heads

4 tracks, 2 channels  
Normal tape : 50 Hz-12,500 Hz (EIAJ)  
AC bias  
Magnet erase  
Recording/Playback head x 1/  
Erasure head x 1

### CD player section

#### Disc

#### Scanning methodd

Compact disc  
Non-contact optical scanner  
(semiconductor laser)

### General

#### Speaker

#### Output

#### Power output

100 mm cone type (2), 60 mm cone type (2)  
Headphones jack (stereo mini-jack)  
2.5 W + 2.5 W (EIAJ 7 ohms DC)

#### Power requirements

DC 12 V using eight R14 (size C) batteries,  
AC 120 V, 60 Hz

#### Power consumption

#### Dimensions (W x H x D)

#### Weight

12 W  
435 (W) x 184 (H) x 277 (D) mm  
(17<sup>1</sup>/<sub>4</sub> x 7<sup>1</sup>/<sub>4</sub> x 11 in.)  
3.7 kg (8 lbs. 3 oz.) (excluding batteries)

• Design and specifications are subject to change without notice.

## SPECIFICATIONS <EZ,K>

### Tuner section

#### Frequency range

**FM :** 87.5 MHz - 108.0 MHz  
Antenna : Rod antenna  
**MW :** 531/530 kHz - 1,602/1,710 kHz  
(9/10 kHz/step)  
Antenna : Ferrite bar antenna  
**LW :** 153 - 288 kHz  
Antenna : Ferrite bar antenna

### Deck section

#### Track format

#### Frequency range

#### Recording system

#### Erasing system

#### Heads

4 tracks, 2 channels  
Normal tape : 50 Hz-12,500 Hz (EIAJ)  
AC bias  
Magnet erase  
Recording/Playback head x 1/  
Erasure head x 1

### CD player section

#### Disc

#### Scanning methodd

Compact disc  
Non-contact optical scanner  
(semiconductor laser)

### General

#### Speaker

#### Output

#### Power output

100 mm cone type (2), 60 mm cone type (2)  
Headphones jack (stereo mini-jack)  
2.9 W + 2.9 W (DIN MUSIC POWER)<EZ>  
2.5 W + 2.5 W (EIAJ 7 ohms DC, T.H.D. 10%)  
1.9 W + 1.9 W (DIN 1% Rated Power)

#### Power requirements

DC 12 V using eight R14 (size C) batteries,  
AC 230 V, 50 Hz

#### Power consumption

#### Dimensions (W x H x D)

#### Weight

16 W  
435 (W) x 184 (H) x 277 (D) mm  
(17<sup>1</sup>/<sub>4</sub> x 7<sup>1</sup>/<sub>4</sub> x 11 in.)  
3.7 kg (8 lbs. 3 oz.) (excluding batteries)

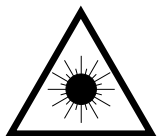
• Design and specifications are subject to change without notice.

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

### WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

### VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

### WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### ATTENTION

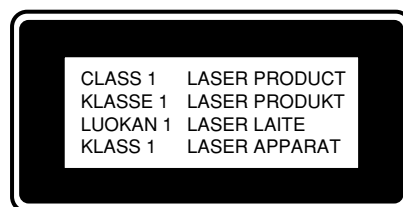
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

### ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

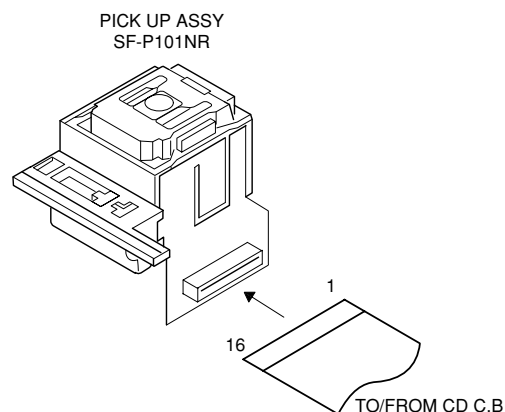
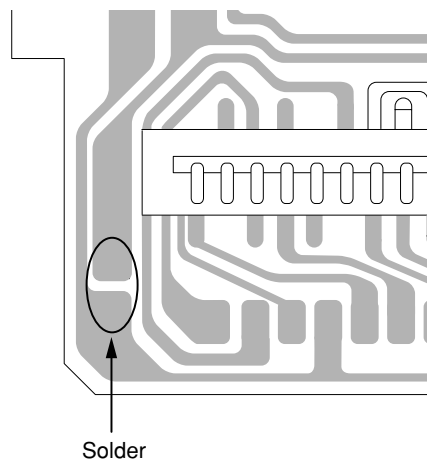
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



## Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



# ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C805	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-550-010		IC,TA2149N	C806	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-185-040		C-IC,LC72121M	C807	87-010-405-080		CAP, ELECT 10-50V
	87-A21-064-010		IC,LA4227	C808	87-010-405-080		CAP, ELECT 10-50V
	87-A21-520-040		C-IC,M61509FP<EZ,U>	C809	87-010-401-080		CAP, ELECT 1-50V
	87-A21-443-040		C-IC,M62495AFP<K>	C810	87-010-401-080		CAP, ELECT 1-50V
	87-A20-446-010		C-IC,LA9241ML	C811	87-010-178-080		CHIP CAP 1000P
	87-A20-459-010		C-IC,LC78622ED	C812	87-010-178-080		CHIP CAP 1000P
	87-A21-093-010		IC,LA6541D	C816	87-010-180-080		C-CER 1500P
	8A-CH4-661-010		C-IC,LC867132V-5P07	C817	87-010-180-080		C-CER 1500P
	87-A21-431-010		IC,BA4560N	C821	87-010-401-080		CAP, ELECT 1-50V
TRANSISTOR				C822	87-010-401-080		CAP, ELECT 1-50V
	87-026-237-080		C-TR,DTC124XK	C823	87-010-178-080		CHIP CAP 1000P
	89-327-143-080		TR,2SC2714 (0.1W)	C824	87-010-178-080		CHIP CAP 1000P
	87-026-447-080		TR,2SC1740SR	C829	87-010-178-080		CHIP CAP 1000P
	89-111-624-080		TR,2SA1162Y	C830	87-010-178-080		CHIP CAP 1000P
	87-026-213-080		CHIP-TR,DTC114YK	C831	87-010-198-080		C-CAP, 0.22-25 K B
	89-327-125-080		CHIP TR,2SC2712GR	C834	87-010-248-080		CAP, ELECT 220-10V
	89-503-025-010		C-FET,2SK302GR	C843	87-010-197-080		CAP, CHIP 0.01 DM
	89-318-154-080		TR,2SC1815 (0.4W)	C844	87-018-124-080		CAP, CER 270P-50V
	89-112-965-080		TR,2SA1296 (0.75W)	C845	87-010-178-080		CHIP CAP 1000P
	87-026-463-080		TR,2SA933S (0.3W)	C846	87-010-263-080		CAP, ELECT 100-10V
	87-026-291-080		TR,DTC124XS	C851	87-010-186-080		CAP,CHIP 4700P
	89-213-702-080		TR,2SB1370E	C852	87-010-178-080		CHIP CAP 1000P
	89-320-011-080		TR,2SC2001K	C853	87-A11-145-080		CAP, TC U 0.01-50
	87-026-462-080		TR,2SC1740 S(RS 0.3W)	CN201	87-099-018-010		CONN,16P
	89-109-332-380		TR,2SA933RS	CN801	87-A60-110-010		CONN,4P V S2M-4W
	89-113-187-080		TR,2SA1318TU	CNA302	8A-CD9-629-010		CONN ASSY, 6P MA-TU
	87-026-239-080		TR,DTC114TK	CNA801	8A-CD9-630-010		CONN ASSY, 4P RPH
	87-026-210-080		TR,DTC144EK	FC201	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
	87-026-464-080		TR,DTC114TS (0.3W)	L801	87-007-342-010		COIL,OSC 85K BIAS
	87-026-230-080		C-TR,DTA114YK	SW801	8Z-CD9-609-010		SW,SL 1-6-2 PS62D01
DIODE				CD C.B			
	87-A40-234-080		ZENER,MTZJ5.6A	C30	87-010-260-080		CAP, ELECT 47-25V
	87-020-465-080		DIODE,1SS133 (110MA)	C251	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-072-080		ZENER,HZS3B1	C261	87-010-402-080		CAP,E 2.2-50 M
	87-027-703-080		ZENER,HZ7A1L	C262	87-010-402-080		CAP,E 2.2-50 M
	87-A40-648-080		ZENER,MTZJ8.2A	C263	87-010-178-080		CHIP CAP 1000P
	87-070-345-080		DIODE,1N4148	C264	87-010-178-080		CHIP CAP 1000P
	87-017-978-080		DIODE,1N4003	C265	87-010-263-080		CAP, ELECT 100-10V
	87-027-702-080		DIODE,ZENER HZ6C2L (200MA)	C266	87-010-263-080		CAP, ELECT 100-10V
	87-A40-465-010		DIODE,FR202	C267	87-010-112-080		CAP, ELECT 100-16V
	87-027-399-080		ZENER,HZ7A3L	C268	87-010-112-080		CAP, ELECT 100-16V
MAIN C.B				C271	87-010-237-080		CAP, ELECT 1000-16V
C211	87-A11-603-080		CAP, S 0.15-16	C272	87-010-237-080		CAP, ELECT 1000-16V
C212	87-A11-603-080		CAP, S 0.15-16	C278	87-010-405-080		CAP, ELECT 10-50V
C215	87-016-460-080		C-CAP,S 0.22-16 B	C279	87-010-385-080		CAP, ELECT 220-25V
C216	87-016-460-080		C-CAP,S 0.22-16 B	C301	87-016-495-000		CAP,E 3300-25 M SMG
C231	87-010-213-080		C-CAP,S 0.015-50 B	C306	87-010-404-080		CAP, ELECT 4.7-50V
C232	87-010-213-080		C-CAP,S 0.015-50 B	C307	87-010-401-080		CAP, ELECT 1-50V
C233	87-A10-201-080		C-CAP,S0.33-16 KB	C308	87-010-221-080		CAP, ELECT 470-10V
C234	87-A10-201-080		C-CAP,S0.33-16 KB	C311	87-010-263-080		CAP, ELECT 100-10
C235	87-016-669-080		C-CAP,S 0.1-25 K B	C312	87-010-385-080		CAP, ELECT 220-25V
C236	87-016-669-080		C-CAP,S 0.1-25 K B	C321	87-010-197-080		CAP, CHIP 0.01 DM
C237	87-010-371-080		CAP, ELECT 470-6.3M	C322	87-010-263-080		CAP, ELECT 100-10V
C239	87-010-197-080		CAP, CHIP 0.01 DM<EZ,U>	C325	87-010-405-080		CAP, ELECT 10-50V
C239	87-010-805-080		CAP, CHIP 1-16 Z F<K>	C401	87-010-403-080		CAP, ELECT 3.3-50V
C240	87-010-197-080		CAP, CHIP 0.01 DM<EZ,U>	C402	87-010-197-080		CAP, CHIP 0.01 DM
C240	87-010-805-080		CAP, CHIP 1-16 Z F<K>	C403	87-010-263-080		CAP, ELECT 100-10V
C247	87-010-401-080		CAP, ELECT 1-50V	C404	87-010-248-080		CAP, ELECT 220-10V
C248	87-010-401-080		CAP, ELECT 1-50V	C405	87-010-197-080		CAP, CHIP 0.01 DM
C310	87-010-248-080		CAP, ELECT 220-10V	C406	87-010-374-080		CAP, ELECT 47-10V
C316	87-010-263-080		CAP,E 100-10	C407	87-010-178-080		CHIP CAP 1000P
C317	87-010-197-080		CAP, CHIP 0.01 DM	C408	87-010-198-080		CAP, CHIP 0.022
C801	87-010-248-080		CAP, ELECT 220-10V	C409	87-010-248-080		CAP, ELECT 220-10V
				C410	87-010-263-080		CAP, ELECT 100-10V
				C411	87-A11-177-080		C-CAP,S 0.15-16 K B
				C412	87-010-401-080		CAP, ELECT 1-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C413	87-016-369-080		C-CAP,S 0.033-25 B K	C506	87-010-322-080		C-CAP,S 100P-50 CH
C414	87-010-405-080		CAP, ELECT 10-50V	C510	87-016-669-080		C-CAP,S 0.01-25 K
C416	87-010-545-080		CAP, ELECT 0.22-50V	C831	87-010-198-080		CAP, CHIP 0.022
C417	87-012-157-080		C-CAP,S 330P-50 CH	CN202	8A-CH4-689-010		CONN,3P V 2.5
C418	87-010-213-080		C-CAP,S 0.015-25 B	CN205	87-A60-109-010		CONN,2P V S2M-2W
C419	87-A11-608-080		C-CAP,S 0.33-25 K B	CN301	8A-CH4-689-010		CONN,3P V 2.5
C420	87-016-369-080		C-CAP,S 0.033-25 B K	CN401	87-A60-424-010		CONN,16P V TOC-B
C421	87-A11-177-080		C-CAP,S 0.15-16 K B	CN403	87-099-201-010		CONN,8P 6216 H
C422	87-010-184-080		C-CAP,S 3300P-50 K B	CN802	8A-CH4-687-010		CONN,4P V 2.5
C423	87-010-992-080		CHIP-CAP,S 0.047-25	CNA205	8A-CD9-626-010		CONN ASSY,2P DOOR
C424	87-A11-606-080		C-CAP,S 0.22-25 K B	CNA402	8A-CD9-625-010		CONN ASSY,6P CD-ME
C425	87-010-176-080		C-CAP,S 680P-50 SL	CNA802	8A-CD9-631-010		CONN ASSY,4P TP-ME
C426	87-A11-608-080		C-CAP,S 0.33-25 K B	FC401	8A-CD9-621-010		FF-CABLE, 16P CD-RF
C428	87-010-197-080		CAP, CHIP 0.01 DM	FC403	8A-CD9-622-010		FF-CABLE, 8P CD-FR
C429	87-010-186-080		CAP,CHIP 4700P	L401	87-003-102-080		COIL, 10UH
C430	87-012-156-080		C-CAP,S 220P-50 CH	L404	87-003-152-080		COIL, 100UH
C431	87-010-545-080		CAP, ELECT 0.22-50V	R840	87-029-124-010		RES,FUSE 2.2-1/4
C432	87-010-374-080		CAP, ELECT 47-10V	SFR430	87-024-437-080		SFR,100K H RH063MC
C433	87-010-401-080		CAP, ELECT 1-50V	SW205	87-036-389-010		SW, PUSH 1-1-1 R8120125
C434	87-010-184-080		CHIP CAPACITOR 3300P(K)	X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2
C435	87-010-197-080		CAP, CHIP 0.01 DM	FRONT C.B			
C436	87-010-374-080		CAP, ELECT 47-10V	C601	87-010-313-080		CAP, CHIP 18P
C437	87-010-404-080		CAP, ELECT 4.7-50V	C602	87-010-315-080		C-CAP,S 27P-50 CH
C438	87-016-669-080		C-CAP,S 0.1-25 K B	C603	87-010-319-080		C-CAP,S 56P-50 CH
C439	87-010-178-080		CHIP CAP 1000P	C604	87-010-312-080		C-CAP,S 15P-50 CH
C440	87-010-145-080		C-CAP, S 1P-50 C CH	C605	87-010-317-080		C-CAP,S 39P-50 CH
C441	87-010-197-080		CAP, CHIP 0.01 DM	C607	87-A10-826-080		CHIP CAPACITOR,S 1-10 K B
C442	87-010-313-080		C-CAP,S 18P-50 CH	C608	87-010-196-080		CHIP CAPACITOR,0.1-25
C445	87-012-368-080		C-CAP,S 0.1-50 F	C612	87-A10-189-040		CAP,E 220-10
C446	87-012-368-080		C-CAP,S 0.1-50 F	C613	87-010-495-040		CAP,E 2.2-50 GAS
C447	87-012-368-080		C-CAP,S 0.1-50 F	C614	87-010-196-080		CHIP CAPACITOR,0.1-25
C448	87-010-315-080		C-CAP,S 27P-50 CH	C615	87-010-493-040		CAP,E 0.47-50 GAS
C450	87-012-140-080		C-CAP,S 470P-50	C616	87-010-494-040		CAP,E 1-50 GAS
C451	087-012-156-080		C-CAP,S 220P-50 CH	C620	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C455	87-010-247-080		CAP, ELECT 100-50 M SME	C627	87-A10-826-080		CHIP CAPACITOR,S 1-10 K B
C457	87-010-312-080		C-CAP,S 15P-50 CH	CN601	87-099-033-010		16P 6216 H
C458	87-010-312-080		C-CAP,S 15P-50 CH	CN602	87-099-201-010		CONN,8P 6216 H
C459	87-010-263-080		CAP, ELECT 100-10V	CNA603	8A-CD9-624-010		CONN ASSY,4P TU-FR
C460	87-015-819-080		CAPACITOR,0.01	CNA604	8A-CH9-623-010		CONN ASSY,2P KEY
C461	87-010-197-080		CAP, CHIP 0.01 DM	L601	87-003-102-080		COIL, 10UH J LAL02
C462	87-010-248-080		CAP, ELECT 220-10V	L690	87-003-231-080		C-COIL, 2125 1UH K
C463	87-010-197-080		C-CAP,S 0.01-25 K B	L691	87-003-231-080		C-COIL, 2125 1UH K
C465	87-010-404-080		CAP, ELECT 4.7-50V	LCD601	8Z-CH4-635-010		LCD,HLC7365 ZCH-4
C466	87-012-368-080		C-CAP,S 0.1-50 F	LED601	88-CD6-630-010		LED,934ID RED
C467	87-010-263-080		CAP, ELECT 100-10V	LED602	88-CD6-630-010		LED,934ID RED
C469	87-012-154-080		C-CAP,S 150P-50 CH	LED603	88-CD6-630-010		LED,934ID RED
C470	87-010-544-080		CAP, ELECT 0.1-50V	LED604	88-CD6-630-010		LED,934ID RED
C471	87-010-196-080		CHIP CAPACITOR, 0.1FZ-25Z	LED606	88-CD6-630-010		LED,934ID RED
C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	LED607	88-CD6-630-010		LED,934ID RED
C473	87-010-196-080		CHIP CAPACITOR, 0.1FZ-25Z	LED608	88-CD6-630-010		LED,934ID RED
C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	LED610	88-CD6-631-010		LED,934GD GRN<EZ,U>
C475	87-010-197-080		CAP, CHIP 0.01 DM	S601	87-A91-704-080		SW,TACT EVQ 214 05R
C476	87-010-236-080		CAP,E 1000-10 SME	S602	87-A91-704-080		SW,TACT EVQ 214 05R
C477	87-010-197-080		CAP, CHIP 0.01 DM	S603	87-A91-704-080		SW,TACT EVQ 214 05R
C478	87-010-263-080		CAP, ELECT 100-10V	S604	87-A91-704-080		SW,TACT EVQ 214 05R
C479	87-010-197-080		CAP, CHIP 0.01 DM	S605	87-A91-704-080		SW,TACT EVQ 214 05R
C480	87-010-221-080		CAP, ELECT 470-10V	S606	87-A91-704-080		SW,TACT EVQ 214 05R
C481	87-010-405-080		CAP, ELECT 10-50V	S607	87-A91-704-080		SW,TACT EVQ 214 05R
C482	87-010-405-080		CAP, ELECT 10-50V	S608	87-A91-704-080		SW,TACT EVQ 214 05R
C489	87-012-368-080		C-CAP,S 0.1-50 F	S614	87-A91-704-080		SW,TACT EVQ 214 05R
C490	87-012-368-080		C-CAP,S 0.1-50 F	X601	87-030-273-010		VIB,XTAL 32.768K5PPM
C491	87-010-197-080		CAP, CHIP 0.01 DM	X602	87-030-376-080		VIB,CER CSA5.76MG200
C492	87-010-221-080		CAP, ELECT 470-10V	TUNER C.B			
C494	87-010-197-080		CAP, CHIP 0.01 DM	C1	87-010-314-080		C-CAP,S 22P-50V
C495	87-016-669-080		C-CAP,S 0.01-25 K	C2	87-010-316-080		C-CAP,S 33P-50 CH
C501	87-012-368-080		C-CAP,S 0.1-50 F	C3	87-010-314-080		C-CAP,S 22P-50V
C502	87-010-322-080		C-CAP,S 100P-50 CH	C5	87-016-669-080		C-CAP,S 0.1-25 K B<U>
C503	87-010-322-080		C-CAP,S 100P-50 CH				
C504	87-010-322-080		C-CAP,S 100P-50 CH				
C505	87-010-322-080		C-CAP,S 100P-50 CH				

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C5	87-012-360-080		C-CAP,S 1-10 Z F<EZ,K>	L6	87-A50-567-010		COIL,FM OSC(ACH)
C6	87-010-313-080		CAP, CHIP 18P	L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
C7	87-014-049-080		CAP,PP 470P-100 J	L8	87-005-849-080		COIL,10UH(CECS)
C8	87-010-178-080		CHIP CAP 1000P	L51	87-A50-421-010		COIL, LW OSC(SYN)<EZ,K>
C10	87-010-197-080		CAP, CHIP 0.01 DM	TC1	87-011-254-080		TRIMER,20P LAR
C11	87-010-197-080		CAP, CHIP 0.01 DM	TC51	87-A91-659-010		TRIMMER,50P 4.0X4.5 ECRL<EZ,K>
C12	87-010-197-080		CAP, CHIP 0.01 DM	X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C13	87-010-150-080		C-CAP,S 6P-50 CH				
C14	87-010-303-080		C-CAP,S 330P-50CH				
C15	87-010-178-080		CHIP CAP 1000P	H.P. C.B			
C16	87-010-374-080		CAP, ELECT 47-10V	CN204	87-A60-685-010		CONN,4P H WHT
C17	87-010-198-080		CAP, CHIP 0.022	CN605	87-A60-113-010		CONN,2P H S2M-2WR
C18	87-015-835-080		C-CAP,0.047 D	CNA203	8A-CD9-628-010		CONN ASSY,3P MA-HP
C19	87-010-263-080		CAP, ELECT 100-10V	CNA204	8A-CD9-633-010		CONN ASSY,4P SP
C20	87-010-404-080		CAP, ELECT 4.7-50V	J251	87-A60-569-010		JACK,HTJ-035-18
C21	87-010-197-080		CAP, CHIP 0.01 DM	S609	87-A91-704-080		SW,TACT EVQ 214 05R
C22	87-010-197-080		CAP, CHIP 0.01 DM	S610	87-A91-704-080		SW,TACT EVQ 214 05R
C23	87-010-197-080		CAP, CHIP 0.01 DM	S611	87-A91-704-080		SW,TACT EVQ 214 05R
C24	87-010-303-080		C-CAP,S 330P-50CH	S612	87-A91-704-080		SW,TACT EVQ 214 05R
C25	87-016-460-080		C-CAP,S 0.22-16 B	S613	87-A91-704-080		SW,TACT EVQ 214 05R
C27	87-A11-067-080		C-CAP,S 1-10 K B				
C28	87-016-669-080		C-CAP,S 0.1-25 K B	BATT1 C.B			
C29	87-016-669-080		C-CAP,S 0.1-25 K B				
C30	87-010-198-080		CAP, CHIP 0.022<U>	C901	87-010-192-080		C-CAP,S 0.22-50 Z F
C30	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>	C902	87-010-192-080		C-CAP,S 0.22-50 Z F
C31	87-010-198-080		CAP, CHIP 0.022<U>	C903	87-010-192-080		C-CAP,S 0.22-50 Z F
C31	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>	C904	87-010-192-080		C-CAP,S 0.22-50 Z F
C33	87-012-358-080		C-CAP,S 0.47-10 F Z	CNA901	8A-CD9-627-010		CONN ASSY,3P PWR
C34	87-012-358-080		C-CAP,S 0.47-10 F Z	△ PT901	8A-CD9-606-010		PT,U 2.5W<U>
C35	87-015-819-080		CAPACITOR,0.01	△ PT901	8A-CD8-603-010		PT,E<EZ,K>
C36	87-010-263-080		CAP, ELECT 100-10V	△ PR901	87-A90-092-080		PROTECTOR,2.5A 491SERIES 60<EZ,K>
C37	87-010-197-080		CAP, CHIP 0.01 DM				
C38	87-010-374-080		CAP, ELECT 47-10V	BATT2 C.B			
C39	87-010-404-080		CAP, ELECT 4.7-50V				
C40	87-010-197-080		CAP, CHIP 0.01 DM	MOTOR C.B			
C41	87-010-178-080		CHIP CAP 1000P				
C42	87-010-178-080		CHIP CAP 1000P	M2	9X-262-576-910		MOTOR GEAR ASSY
C43	87-010-178-080		CHIP CAP 1000P	PIN3	91-564-722-110		CONNECTOR 6P
C44	87-010-311-080		CAP 12P	SW1	91-572-085-120		LEAF SW
C45	87-010-312-080		C-CAP,S 15P-50 CH				
C46	87-010-197-080		CAP, CHIP 0.01 DM				
C47	87-010-197-080		CAP, CHIP 0.01 DM				
C48	87-010-197-080		CAP, CHIP 0.01 DM				
C49	87-012-140-080		CAP 470P				
C50	87-010-197-080		CAP, CHIP 0.01 DM				
C51	87-010-316-080		C-CAP,S 33P-50<EZ,K>				
C52	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C53	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C54	87-014-055-080		CAP, 820-100J<EZ,K>				
C55	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C71	87-010-197-080		CAP, CHIP 0.01 DM				
C72	87-010-263-080		CAP, ELECT 100-10V				
C73	87-010-197-080		CAP, CHIP 0.01 DM				
C75	87-010-197-080		CAP, CHIP 0.01 DM				
C91	87-012-140-080		CAP 470P				
C92	87-010-197-080		CAP, CHIP 0.01 DM				
C93	87-010-197-080		CAP, CHIP 0.01 DM				
CF1	87-A91-094-010		FLTR,CDA10.7 MG80A				
CF2	87-008-261-010		FILTER, SFE10.7MA5-A				
CF3	87-008-261-010		FILTER, SFE10.7MA5-A				
CN2	87-099-854-010		CONN,6P S2M-6W				
CN3	87-A60-110-010		CONN,4P V S2M-4W				
D3	87-A40-616-070		VARI-CAP,SVC384 (S/T)				
D4	87-A40-128-080		C-VARI-CAP,HVU202A				
D5	87-A40-128-080		C-VARI-CAP,HVU202A				
L2	87-A50-560-010		COIL,FM BPF(ACD)				
L3	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI) <U>				
L3	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI) <EZ,K>				
L4	87-A50-420-010		COIL,MW OSC(SYN)				
L5	87-A50-566-010		COIL,FM RF EX(ACH)				

TRANSISTOR ILLUSTRATION



E C B

2SA933S  
2SA933RS  
2SC1740S  
2SC1740SR  
DTC114TS  
DTC124XS



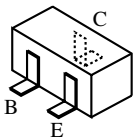
B C E

2SB1370



E C B

2SA1296  
2SC1815



2SA1162Y  
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DTC144EK



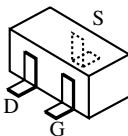
E C B

2SA1318



E C B

2SC2001



2SK302

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち


Chip Resistor Part Coding



A  
抵抗部品コード  
Resistor Code

桁表示  
Figure  
抵抗値  
Value of resistor

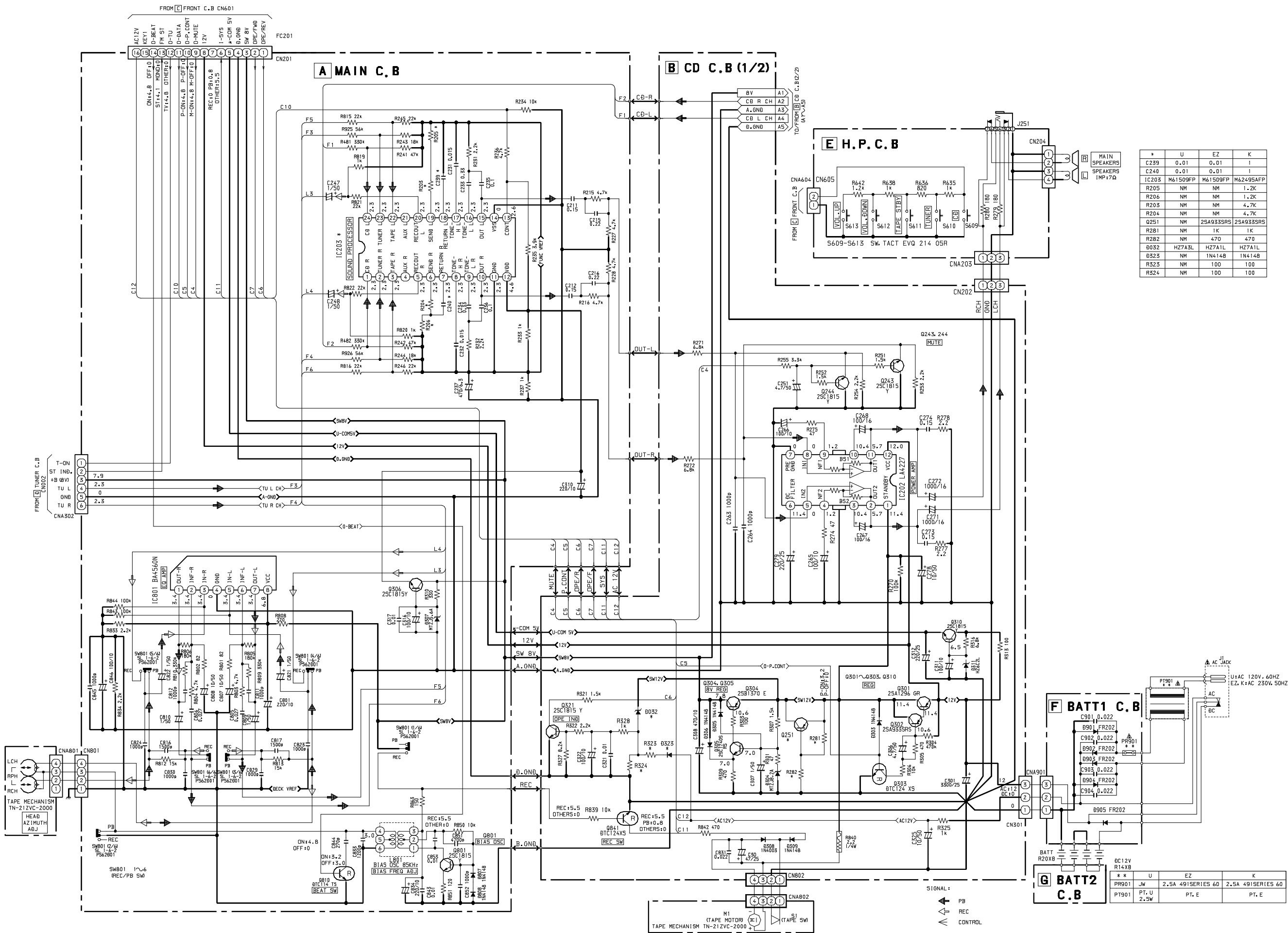
チップ抵抗  
Chip resistor

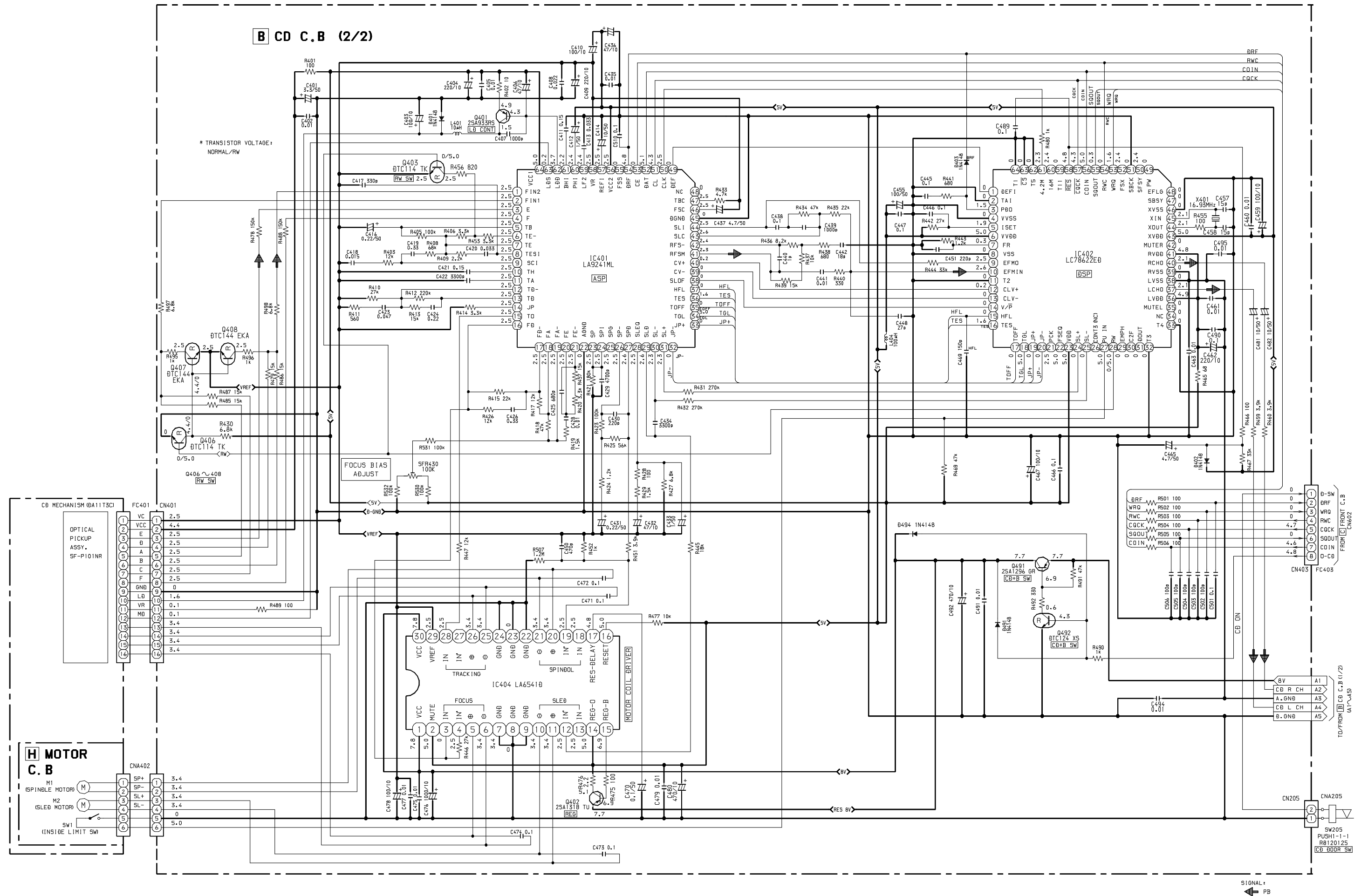
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128





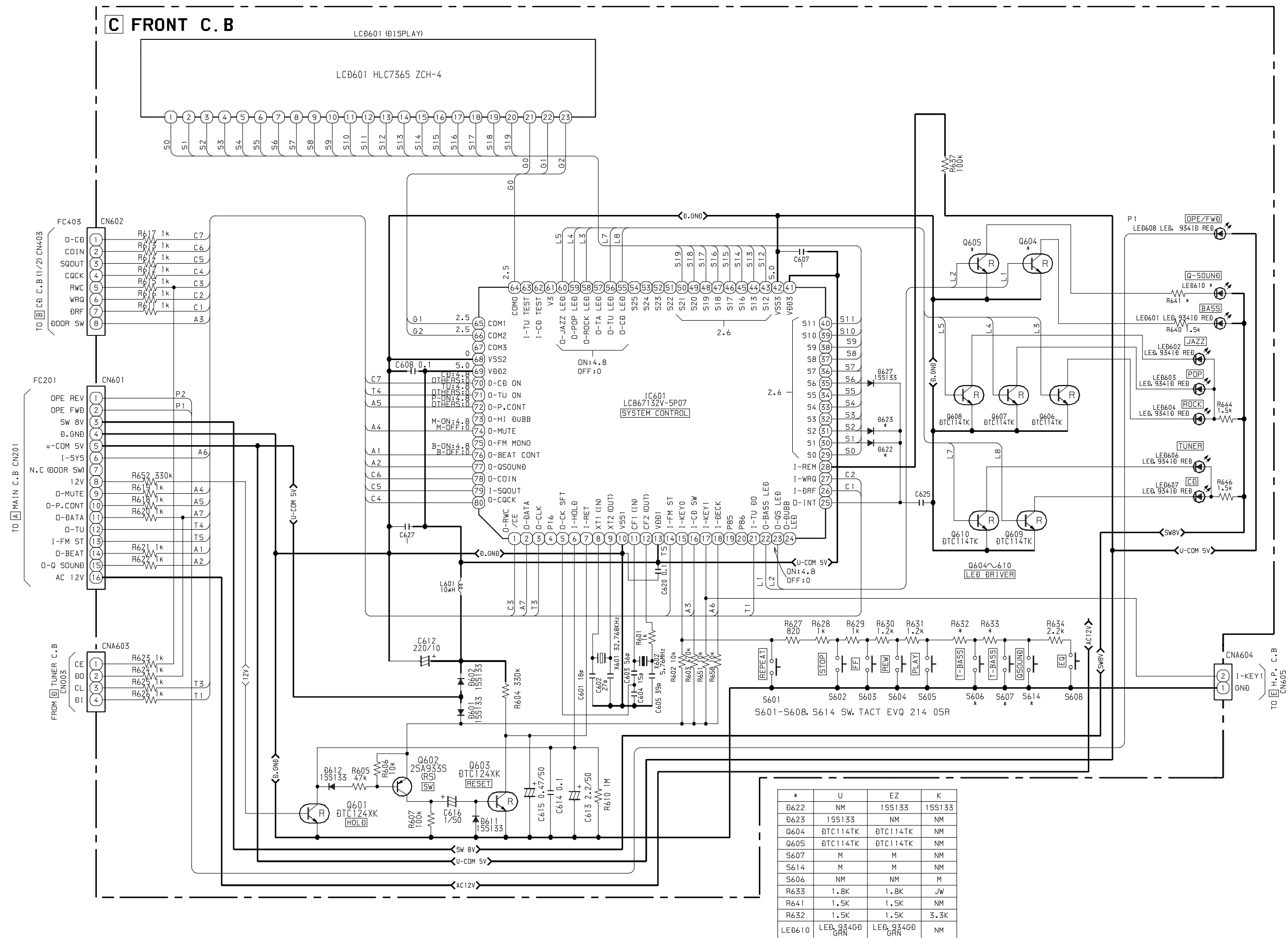
SCHEMATIC DIAGRAM - 1 (MAIN/CD 1/2/H.P./BATT1/BATT2)



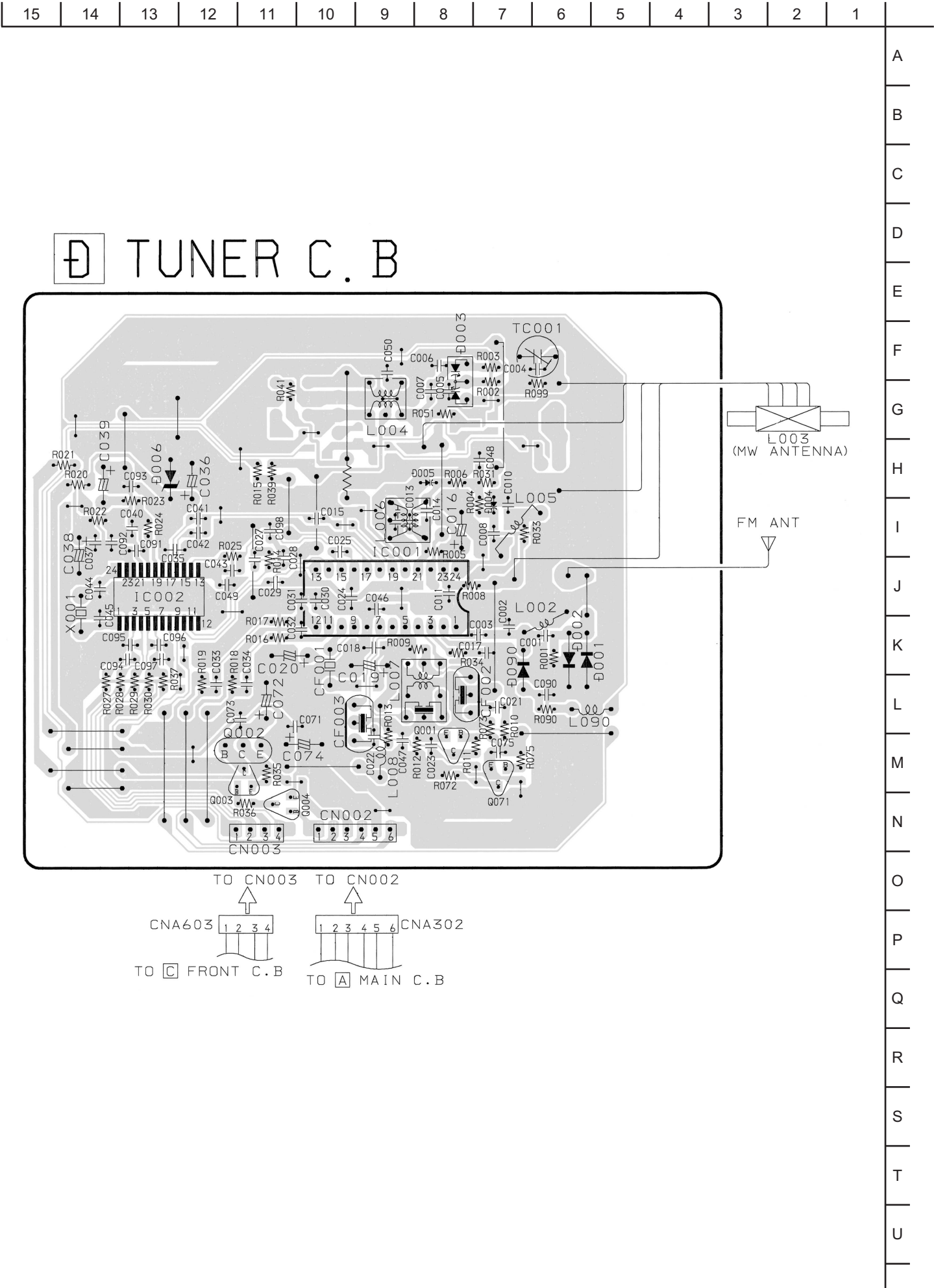




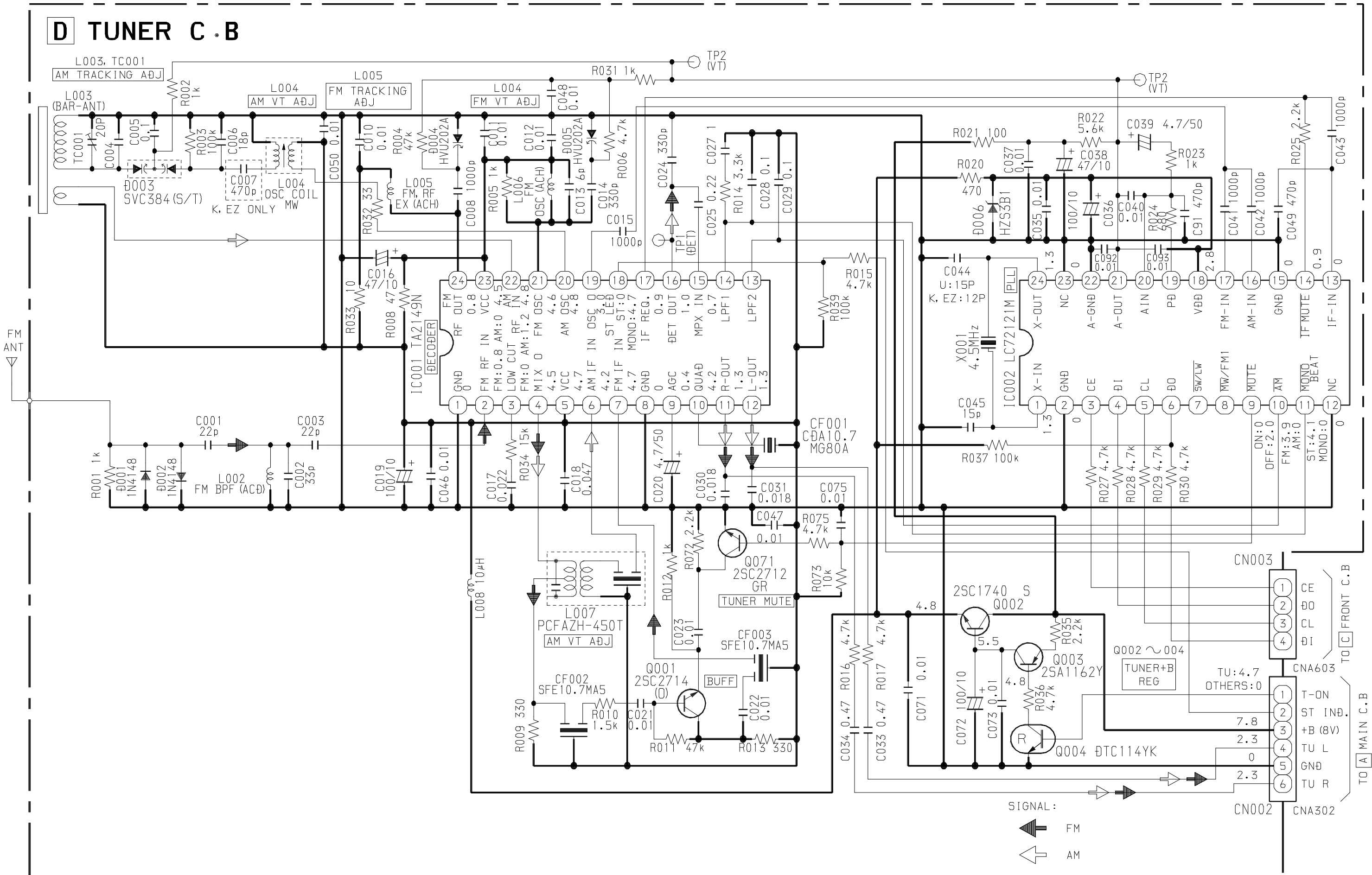
### SCHEMATIC DIAGRAM - 3 (FRONT)



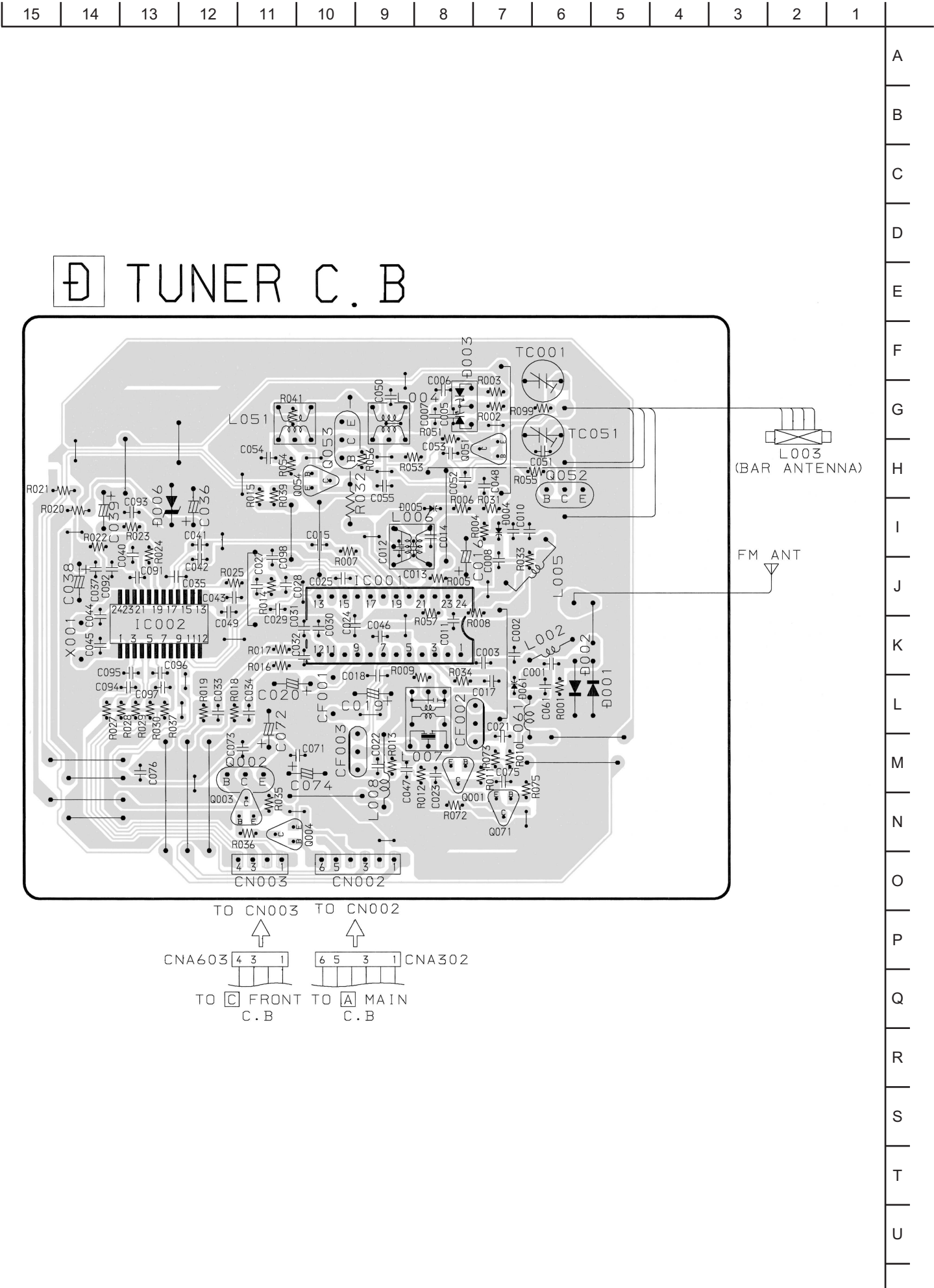
WIRING - 3 (TUNER) <U>

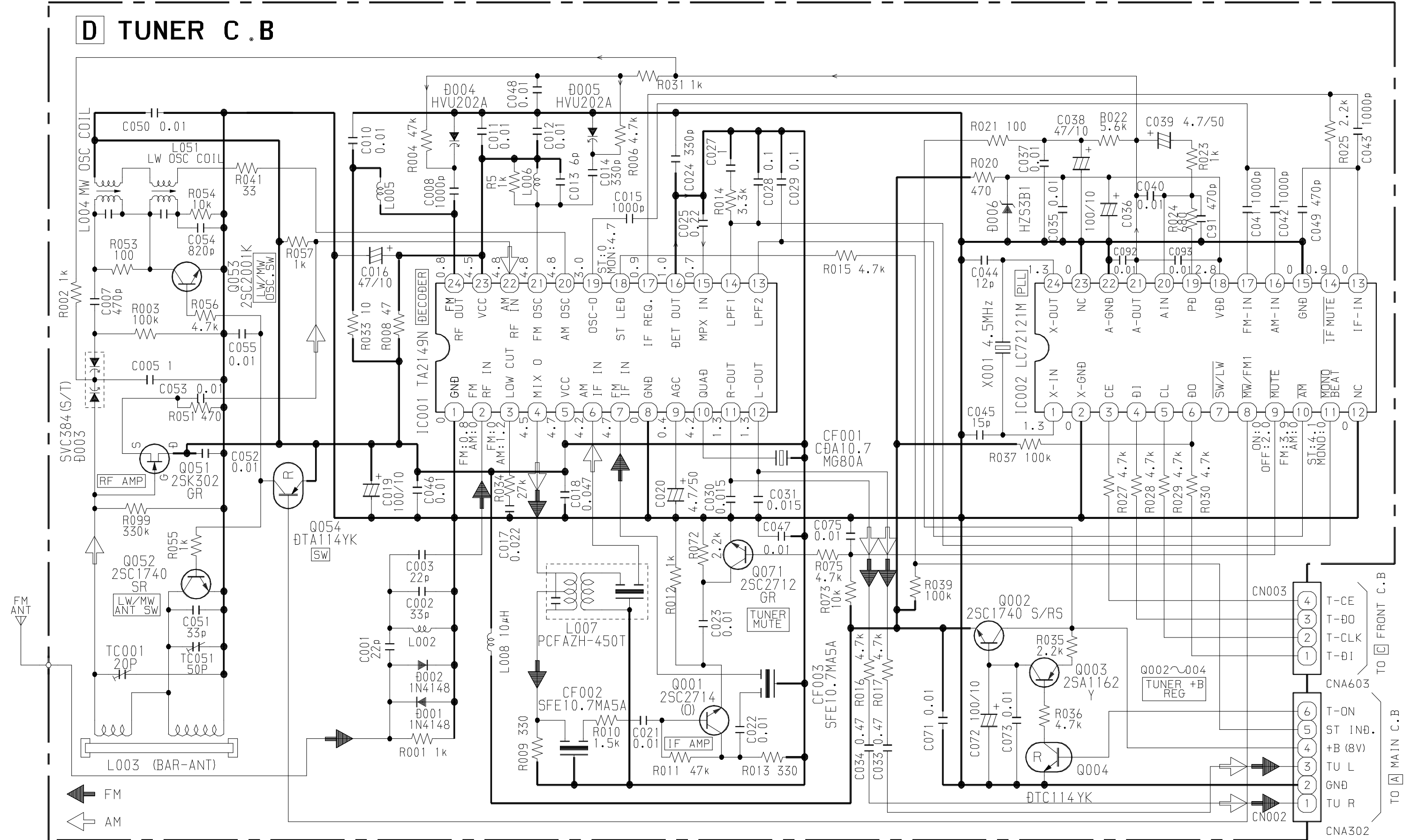






WIRING - 4 (TUNER) <EZ,K>







M2  
(SLED MOTOR)

SW1  
(INSIDE LIMIT SW)

M1  
(SPINDLE MOTOR)

PIN3

FROM [B] CD C.B CNA402

## M2

M2  
(SLED MOTOR)

SW1  
(INSIDE LIMIT SW)

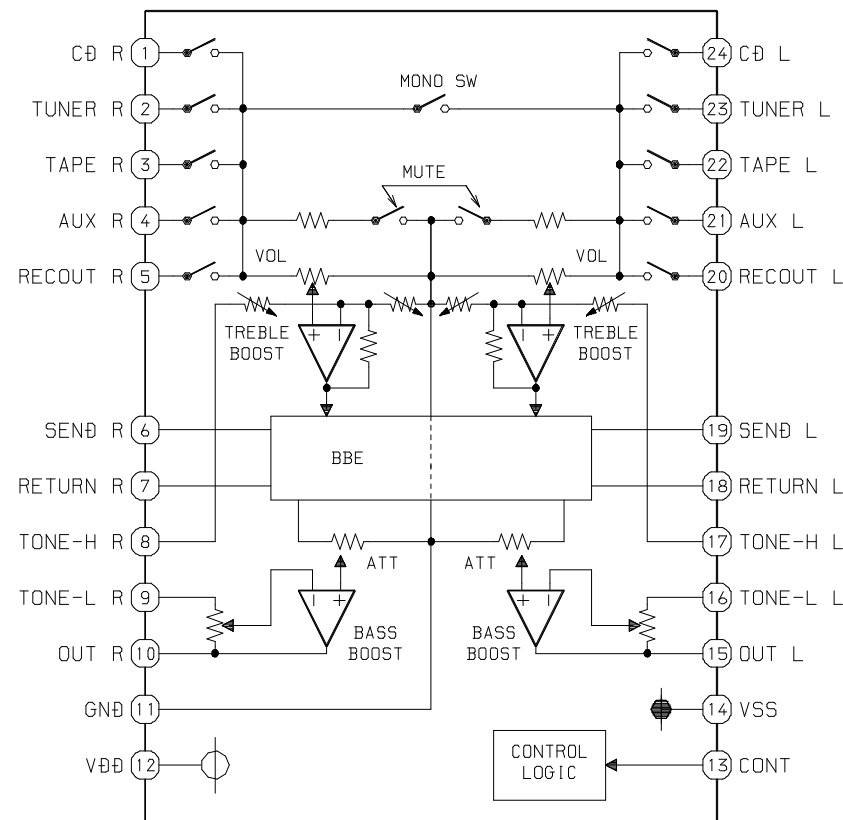
M1  
(SPINDLE MOTOR)

# PIN3

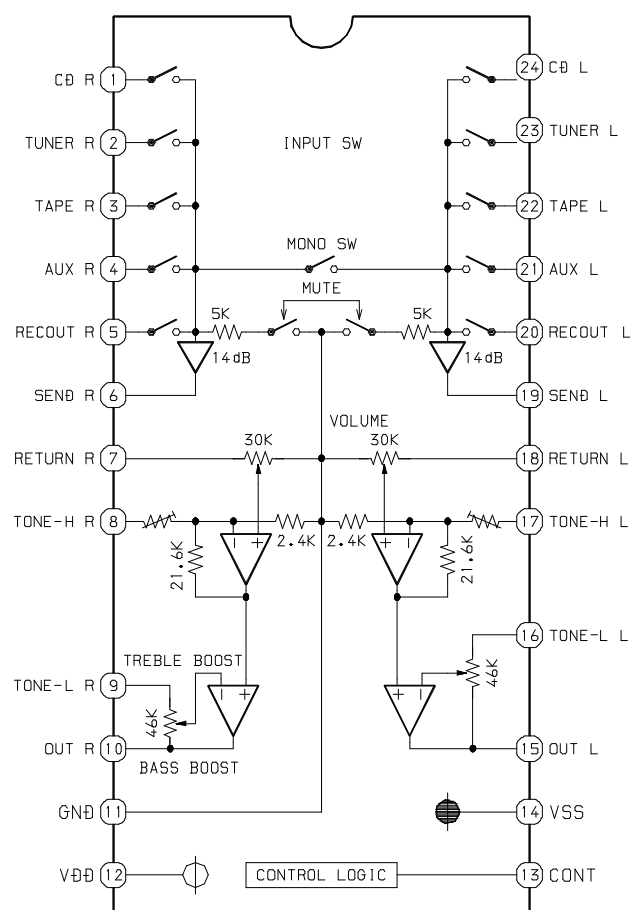
SW1

# M1

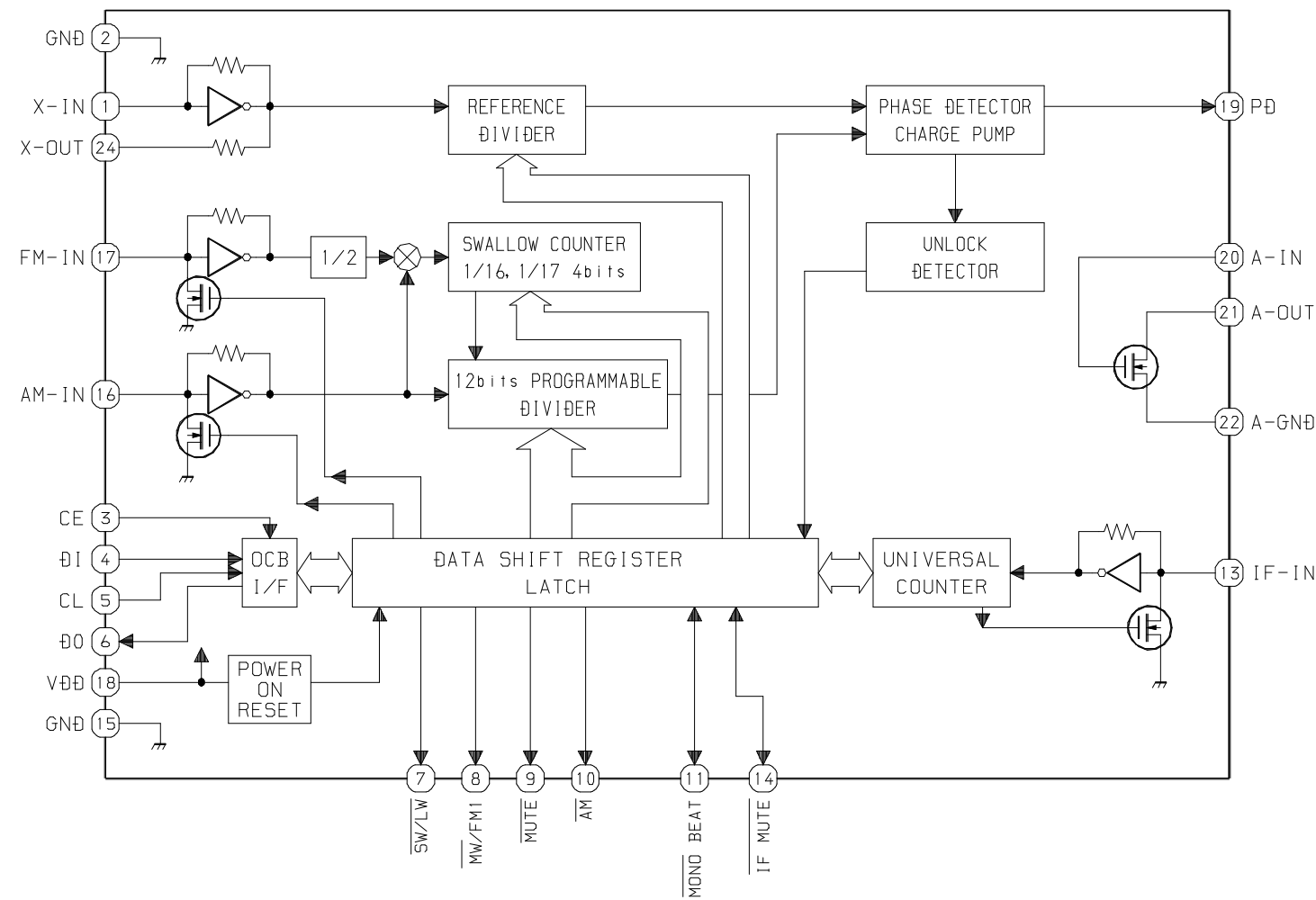
IC BLOCK DIAGRAM  
IC,M61509FP



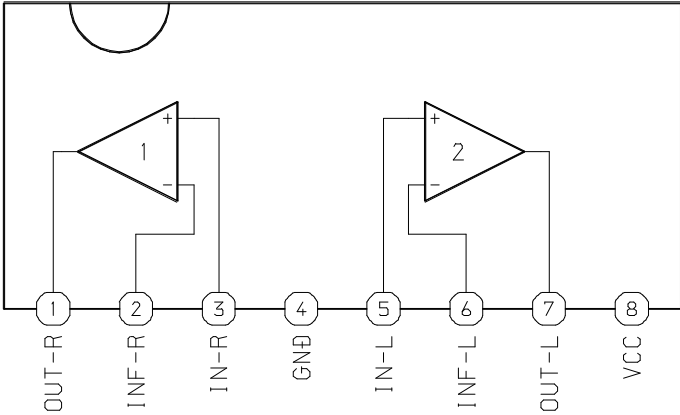
IC,M62495AFP



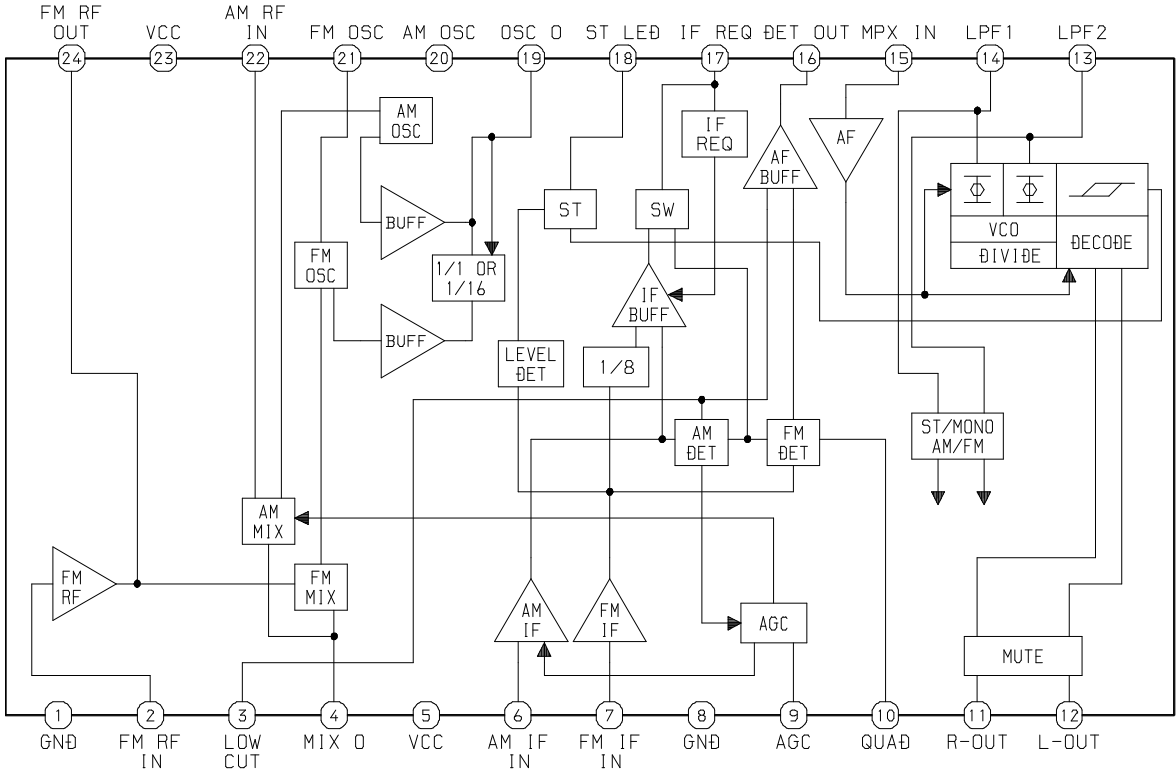
IC,LC72121M



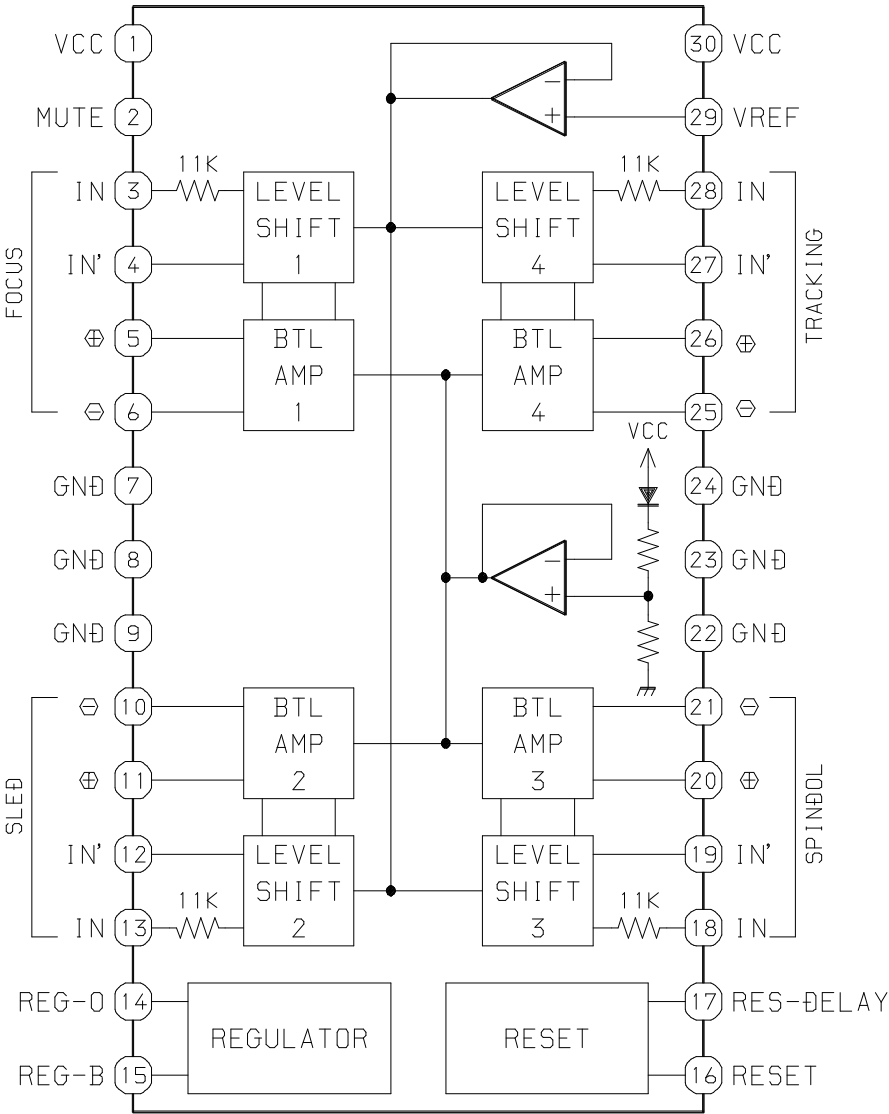
IC,BA4560N



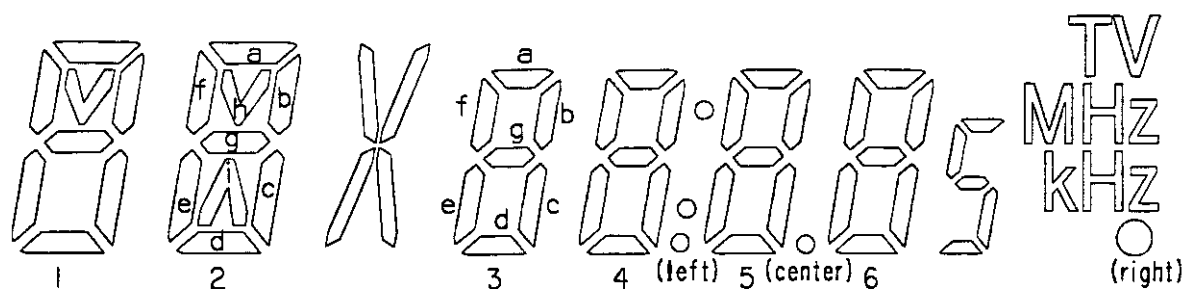
IC,TA2149N



IC,LA6541D



VOL G 1 M MONO STEREO



NO.	COM.1	COM.2	COM.3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	G
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	X
13	•	• (left)	MONO
14	5f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	KHz
21	COM.1		
22		COM.2	
23			COM.3

## IC DESCRIPTION

IC, LC867132V-5P07

Pin No.	Pin Name	I/O	Description
1	O-RWC / CE	O	CD read/write control (TU CE).
2	O-DATA	O	Data output to LC72121M/M62495FP.
3	O-CLK	O	CLK output to LC72121M.
4	P16	-	Not used.
5	O-CK SFT	O	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RET	I	Microcomputer reset pin.
8	XT1 (IN)	I	Connected to 32.768 kHz crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	-	Connected to GND.
11	CF1 (IN)	I	Input pin for ceramic resonator oscillation.
12	CF2 (OUT)	O	Output pin for ceramic resonator oscillation.
13	VDD1	-	Power supply (+5V).
14	I-FM ST	I	FM STEREO detect. (STEREO CONDITION "L").
15	I-KEY0	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-DECK	I	DECK MECHA MOTOR status input.
19	P85	-	Not used.
20	P86	-	Not used.
21	I-TU DO	I	Data input from LC72121M.
22	O-BASS LED	O	BASS LED ON/OFF control output.
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	O-DUBB LED	O	High DUBB LED control.
25	O-INT	O	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REM	I	Remote control input.
29	S0	O	LCD segment output/MATRIX set (SW1).
30	S1	O	LCD segment output/MATRIX set (LW).
31	S2	O	LCD segment output/MATRIX set (AM 10K).
32	S3	O	LCD segment output/MATRIX set (FM WIDE).
33	S4	O	LCD segment output/MATRIX set (OIRT).
34	S5	O	LCD segment output/MATRIX set (SW2).
35	S6	O	LCD segment output/MATRIX set (SYNTH).
36	S7	O	LCD segment output/MATRIX set (FM 1/16).
37	S8	O	LCD segment output/MATRIX set (QSURR).
38	S9	O	LCD segment output/MATRIX set.
39~40	S10~S11	O	LCD segment output.
41	VDD3	-	Power supply (+5V).

42	VSS3	-	Connected to GND.
43~44	S12~S13	O	LCD segment output.
45~50	S16~S21	O	LCD segment output.
51~54	S22~S25	-	Not used.
55	O-CD LED	O	LED ON/OFF control output for CD functions.
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED	O	LED ON/OFF control output for TAPE functions.
58	O-ROCK LED	O	LED ON/OFF control output for ROCK.
59	O-POP LED	O	LED ON/OFF control output for POP.
60	O-JAZZ LED	O	LED ON/OFF control output for JAZZ.
61	V3	-	Not used.
62	I-CD TEST	-	Not used.
63	I-TU TEST	-	Not used.
64~66	COM0~COM2	O	LCD common output.
67	COM3	-	Not used.
68	VSS2	-	Connected to GND.
69	VDD2	-	Power supply (+5V).
70	O-CD ON	O	CD PWR control output.
71	O-TU ON	O	TU PWR control output.
72	O-P.CONT	O	Power supply control output.
73	O-HI DUBB	O	TAPE DUBB speed control.
74	O-MUTE	O	Main mute output.
75	O-FM MONO	-	Not used.
76	O-BEAT CONT	O	BEAT switch over output.
77	O-QSOUND	-	Not used.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Internal VCO ground. Must be connected to 0V.
5	ISSET	O	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. Must be connected to 0V.
9	EFMO	O	Slice level control; EFM signal output.
10	EFMIN	I	Slice level control; EFM signal input.
11	T2	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
12	CLV+	O	Disc motor control output.
13	CLV–		Three-value output is also possible when specified by microprocessor command.
14	V/P	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output.
20	JP–		Three-value output is also possible when specified by microprocessor command.
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	CONT3	–	Not used.
27	PU IN	I	CD pickup inside limit switch.
28	RW	O	Serial data command sled output terminal from microprocessor.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format). (Not used)
32	T3	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
33	T4		
34	NC	–	Unused. Must be left open.
35	MUTEL	O	Left channel one-bit D/A converter mute output. (Not used)
36	LVDD	–	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.

Pin No.	Pin Name	I/O	Description
38	LVSS	–	Left channel one-bit D/A converter ground. Must be connected to 0V.
39	RVSS	-	Right channel one-bit D/A converter ground. (Must be connected to 0V.)
40	RCHO	O	Right channel one-bit D/A converter output.
41	RVDD	-	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute output. (Not used)
43	XVDD	-	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.9344 MHz crystal oscillator element.
45	XIN	I	
46	XVSS	-	Crystal oscillator ground. (Must be connected to 0V.)
47	SBSY	O	Subcode clock synchronization signal output. (Not used)
48	EFLG	O	C1, C2, single and double error correction monitor. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input.
52	FSX	O	Output pin for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read/write control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input pin from control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input pin. This is Schmitt input.
58	$\overline{\text{RES}}$	I	Reset input. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally output a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is built-in. (Must be connected to 0V if not controlled.)
64	T1	I	Test input. No pull-down resistor. (Must be connected to 0V.)

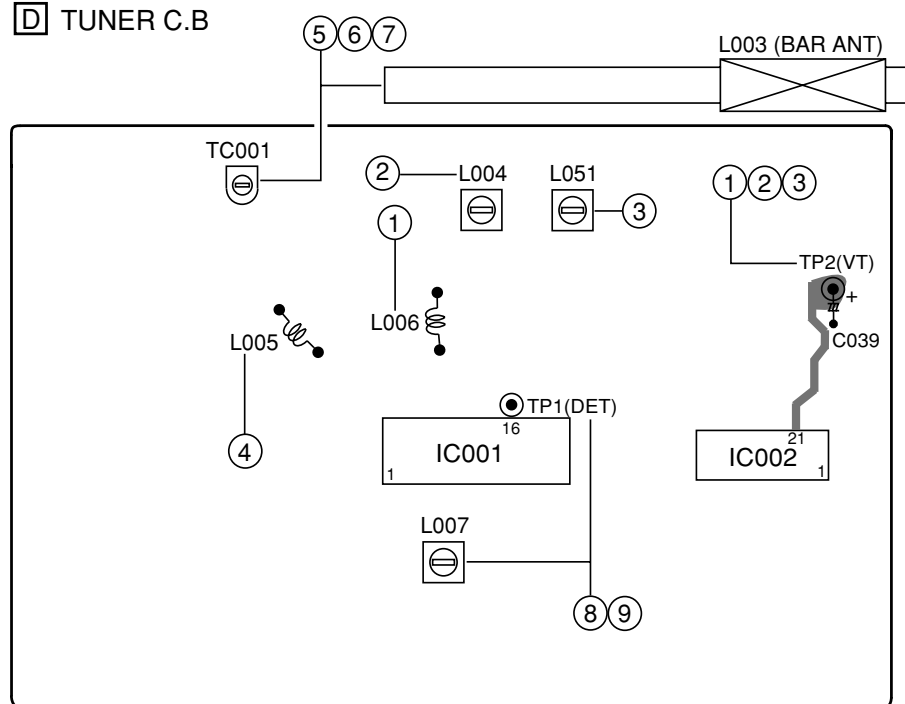


Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	I	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD and FA pins.
19	FA-	I	Composes the focusing phase compensation constant between the FD and FA pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor whichs sets the gain of the FE signal between this pin and the TE pin.
22	AGND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

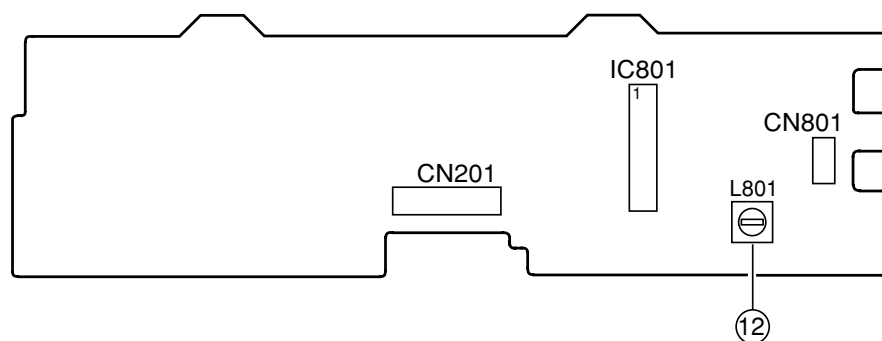
Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	DGND	-	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	-	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Not connected)
56	VCC2	-	VCC of servo and digital circuits.
57	REF1	-	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	Sets the time constant for disc defect detection.
60	PH1	-	For the connection of a capacitor to hold the RF signal peak.
61	BH1	-	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	-	VCC of RF signal circuits.

# ADJUSTMENT <TUNER / DECK / CD>

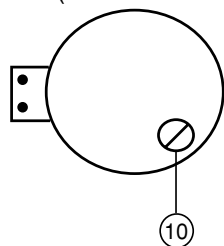
## D TUNER C.B



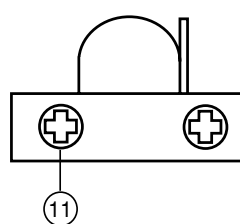
## A MAIN C.B



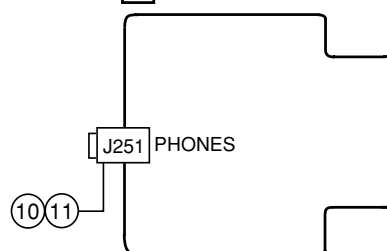
## M1 (TAPE MOTOR)



## RPH



## E H.P. C.B



## < TUNER SECTION >

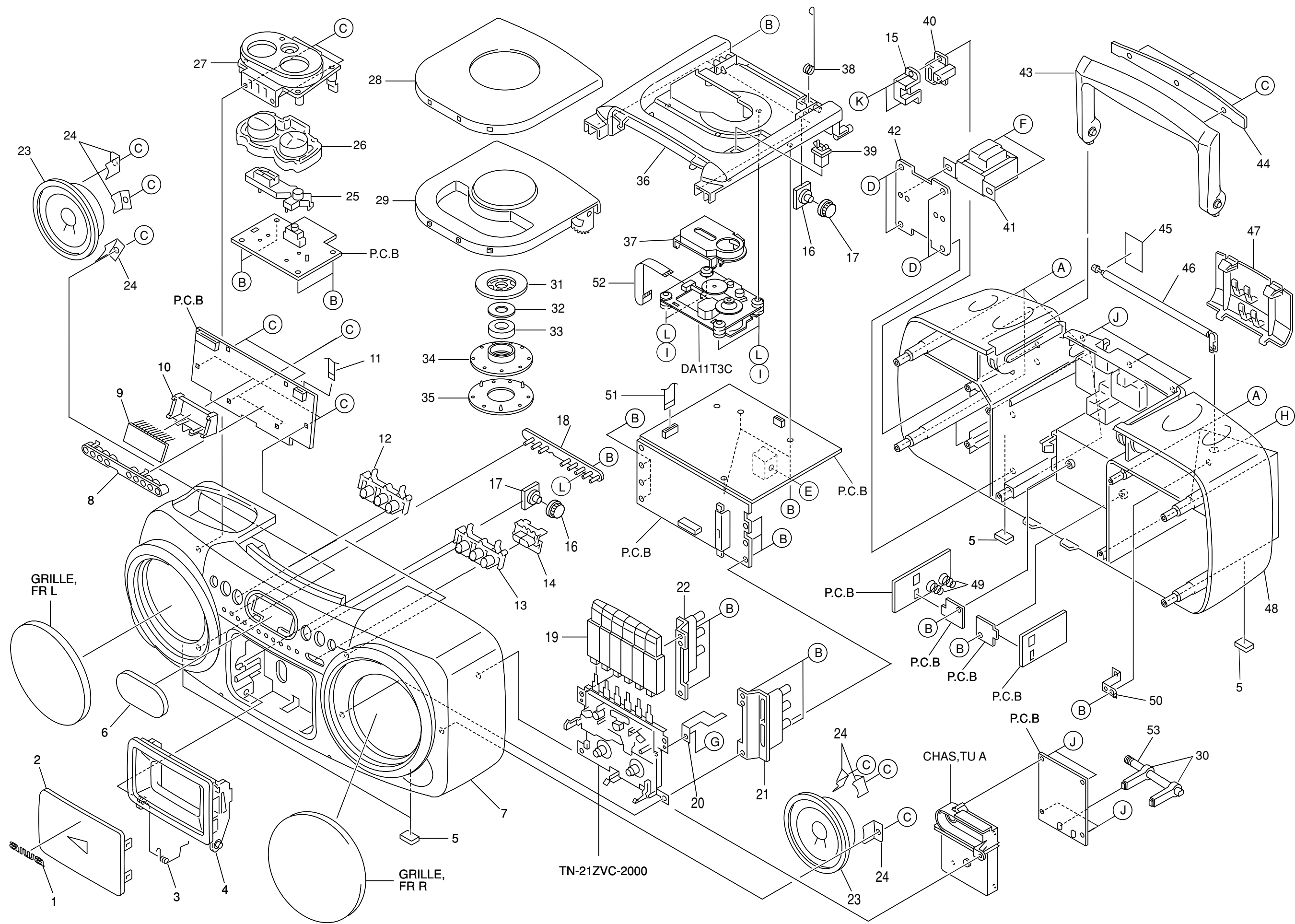
1. FM VT Adjustment  
Settings : • Test point : TP2(VT)  
• Adjustment location : L006  
Method : Set to FM 108.0MHz and adjust L006 so that the test point voltage becomes  $6.0V \pm 0.05V$ .
2. AM VT Adjustment  
Settings : • Test point : TP2(VT)  
• Adjustment location : L004  
Method : Set to MW 1000kHz (U), MW 999kHz (EZ,K) and adjust L004 so that the test point voltage becomes  $3.75V \pm 0.05V$ .
3. LW VT Adjustment <EZ,K>  
Settings : • Test point : TP2(VT)  
• Adjustment location : L051  
Method : Set to LW 288kHz and adjust L051 so that the test point voltage becomes  $4.5V \pm 0.05V$ .
4. FM Tracking Adjustment  
L005.....98.0MHz
5. AM Tracking Adjustment <U>  
L003.....600kHz  
TC001.....1400kHz
6. AM Tracking Adjustment <EZ,K>  
L003.....603kHz  
TC001.....1404kHz
7. LW Tracking Adjustment <EZ,K>  
L003.....153kHz  
TC001.....288kHz
8. AM IF Adjustment <U>  
Settings : • Test point : TP1(DET)  
• Adjustment location : L007  
Method : Adjust L007 so that the output level at 1400kHz becomes maximum.
9. AM IF Adjustment <EZ,K>  
Settings : • Test point : TP1(DET)  
• Adjustment location : L007  
Method : Adjust L007 so that the output level at 1404kHz becomes maximum.

## < DECK SECTION >

10. Tape Speed Adjustment  
Settings : • Test tape : TTA-100  
• Test point : J251 (PHONES jack)  
• Adjustment location : SFR of deck motor  
Method : Play back the test tape and adjust SFR so that the frequency counter reads  $3000Hz \pm 30Hz$ .
11. Head Azimuth Adjustment  
Settings : • Test tape : TTA-320  
• Test point : J251 (PHONES jack)  
• Adjustment location : Azimuth adjustment screw  
Method : Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
12. Bias frequency Adjustment  
L801.....85kHz  $\pm 0.5kHz$

## < CD SECTION >

13. FE Balance Adjustment  
Settings : • Test point : IC401 PIN58 (VR), IC401 PIN 20 (FE)  
• Adjustment location : SFR430  
Method : Playback the disc and adjust SFR430 so that the test point voltage becomes 0V.



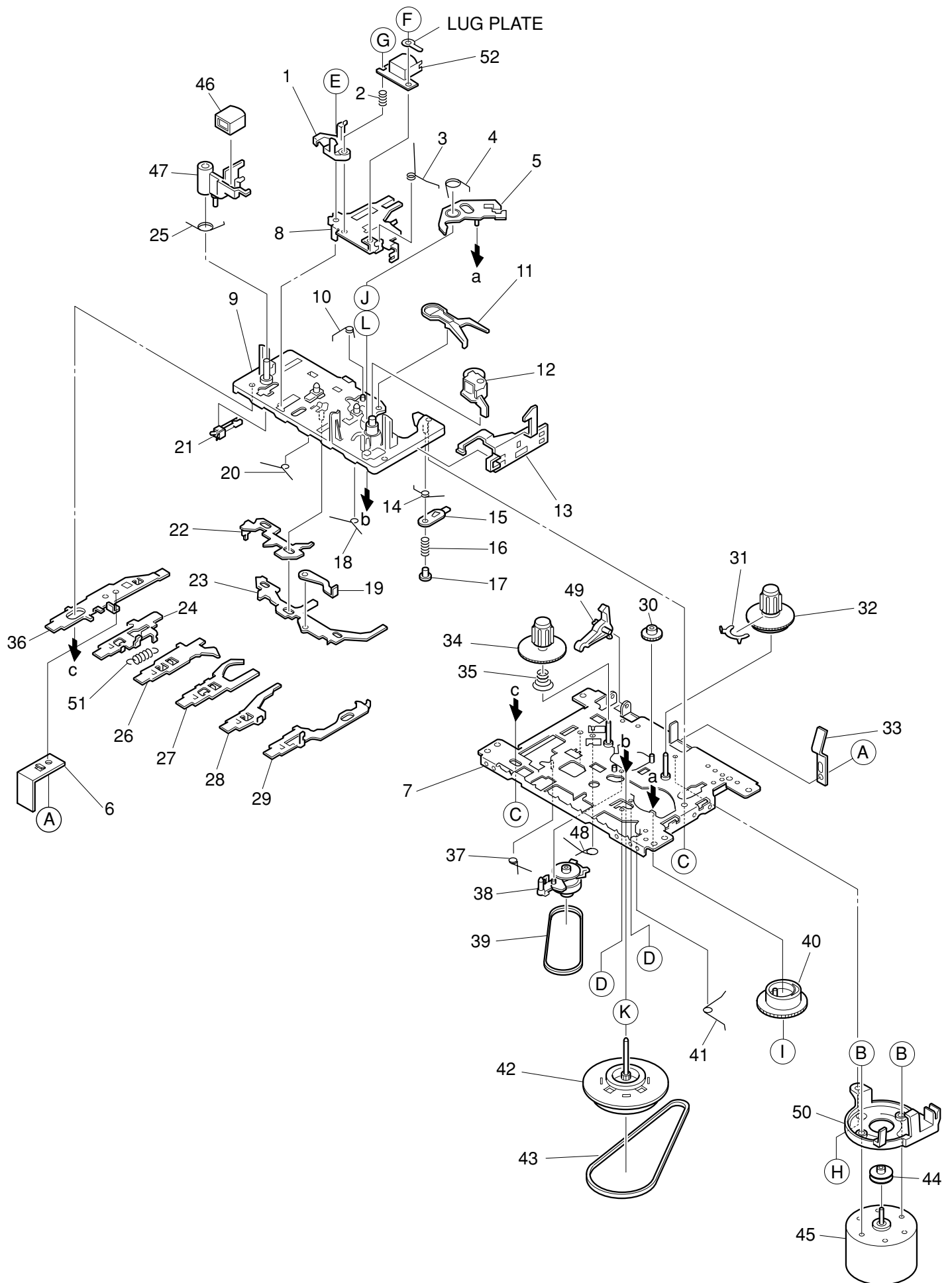
# MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-B00-010-010		BADGE,AIWA 30.5-5.2 S 2.5L	37	8Z-CDB-169-010		PANEL,CD SANYO
2	8A-CD9-009-010		WINDOW,CASS	38	8A-CD9-231-010		SPR-T,CD
3	8A-CD9-232-010		SPR-T,CASS	39	87-036-389-010		SW,PUSH LOCK
4	8A-CD9-008-010		BOX,CASS	△ 40	87-A60-178-010		JACK,AC E W/SW<EZ,K>
5	86-CT4-218-010		CUSHION,FOOT/PORON	△ 40	87-A60-177-010		JACK,AC U W/SW<U>
6	8A-CH9-005-010		WINDOW,LCD	△ 41	8A-CD9-607-010		PT,E 2.5W<EZ,K>
7	8A-CH9-009-010		CABI,FR A2-X ASSY<U>	△ 41	8A-CD9-606-010		PT,U 2.5W<U>
7	8A-CH9-007-010		CABI,FR A2 ASSY<EZ>	42	8A-CH4-209-010		HLDR,PT
7	8A-CH9-011-010		CABI,FR A2L ASSY<K>	43	8A-CD9-012-010		HANDL,GRIP
8	8A-CD9-202-010		GUIDE,LED	44	8A-CD9-011-010		HANDL,ARM
9	8Z-CH4-635-010		LCD,HLC7365 ZCH-4	45	8A-CH4-036-010		PLATE,AC
10	8A-CD9-201-010		HLDR,DISPLAY	46	8Z-CH4-640-010		ANT,ROD
11	8A-CD9-622-010		FF-CABLE, 8P CD-FR	47	8A-CD9-010-010		LID,BATT
12	8A-CD9-015-010		BTN,CD A	48	8A-CH9-002-010		CABI,REAR A2
13	8A-CD9-016-010		BTN,CD B	49	87-CD6-213-010		SPR-C,BATT (-)
14	8A-CD9-028-010		BTN,Q/BASS<EZ,U>	50	8A-CD9-221-010		HLDR,ANT
14	8A-CD9-017-010		BTN,QSOUND<K>	51	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
15	8Z-CD5-634-010		COVER,AC SOCKET	52	8A-CD9-621-010		FF-CABLE, 16P CD-RF
16	84-CD5-215-010		GEAR	53	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<U>
17	84-CD5-216-010		BRACKET	53	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<EZ,K>
18	8A-CD9-022-010		LENS,LED	A	87-B10-242-010		UT2+3-30 W/O CR
19	8A-CD9-024-010		KEY,CASS TN21	B	87-741-096-410		UT2+3-10
20	8A-CD9-223-010		SPR-P,REC TN21	C	87-B10-239-010		QT2+3-8 W/O CR
21	8A-CD9-212-010		HLDR,PWB R	D	87-661-097-410		TAPPING SCREW, VFT1+3-12
22	8A-CD9-211-010		HLDR,PWB L	E	87-751-094-410		VT2+3-6 W10SL0T
23	88-CD9-626-010		SPKR,100 70HM 3W	F	87-067-566-010		TAPPING SCREW, VFTT+3-6
24	8A-CD9-222-010		HLDR,SPEAKER	G	87-571-033-410		TAPPING SCREW, VIT+2-4
25	8A-CD9-203-010		GUIDE,VOL	H	87-255-096-410		U+3-10 NI
26	8A-CD9-014-010		BTN,VOL	I	87-342-074-010		UT2+2.6-8
27	8A-CH9-006-010		PANEL,VOL CH	J	87-B10-269-010		UT2+3-12 W/O CR
28	8A-CD9-007-010		WINDOW,CD	K	87-352-075-210		VT2+2.6-10
29	8A-CH9-012-010		BOX,CD A<EZ,U>	L	87-WA5-253-010		W,3.3-10-0.8
29	8A-CH9-014-010		BOX,CD AL<K>				
30	88-CD6-661-010		HLDR,BAR ANT.				
31	8Z-CH4-225-010		HLDR,CHUCK A(S)				
32	84-CD5-217-010		PLATE,MAGNET				
33	87-036-368-010		MAGNET				
34	8Z-CH4-211-010		BASE,CHUCK				
35	8Z-CH4-212-010		RING,CHUCK				
36	8A-CD9-005-010		CHAS,CD A				

## COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

# TAPE MECHANISM EXPLODED VIEW 1 / 1



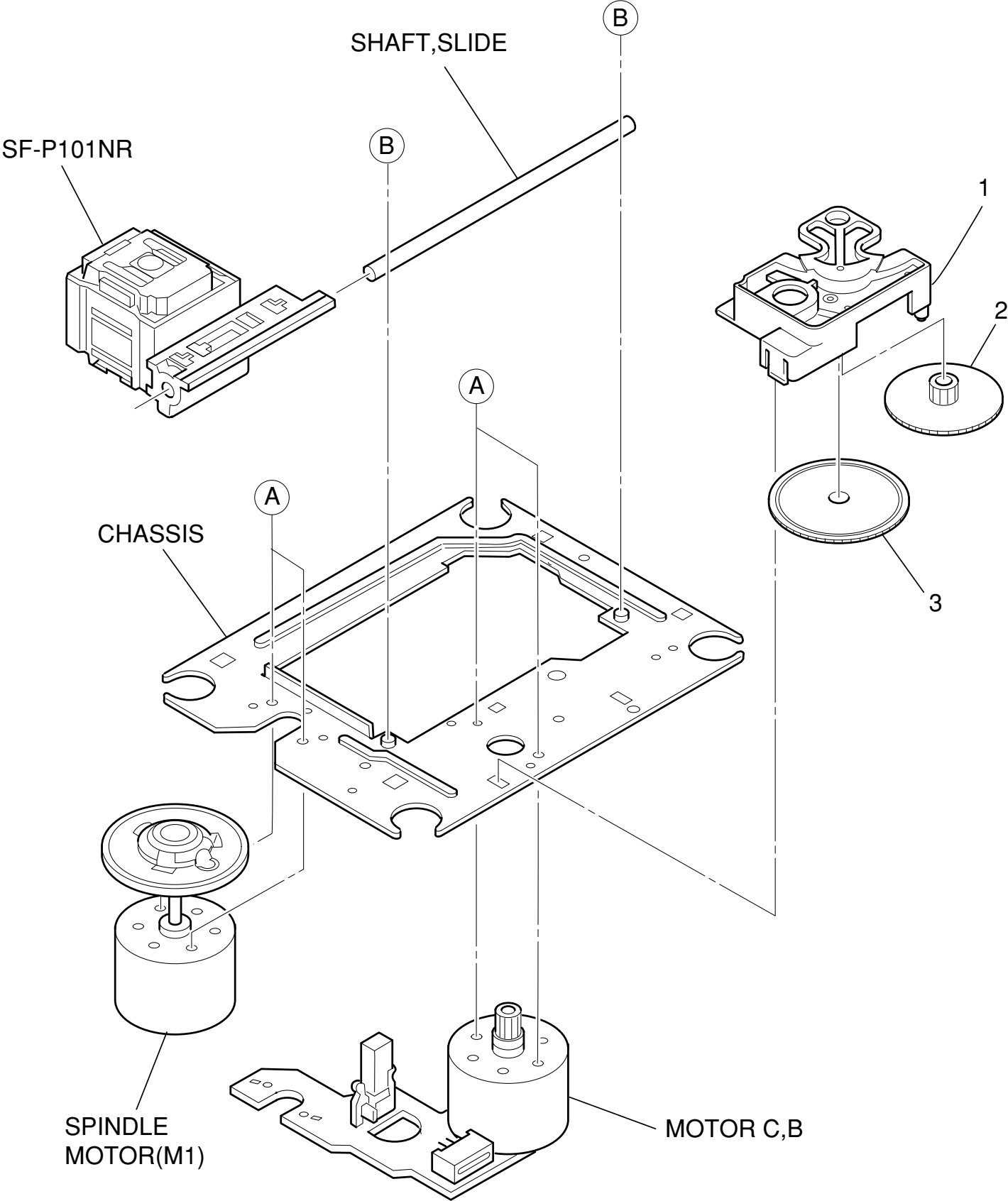
# TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-510-020-020		REC SPRING PLATE
7	S1-921-015-010		CHASSIS ASSY
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-160		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-130-010		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-550		PAUSE LEVER(E)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-141-070		BUTTON LEVER SPRING(A)
21	S6-401-011-490		LEAF SW MSW-1541T
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-190		PLAY BUTTON LEVER
25	S1-921-030-100		MG ARM SPRING
26	S1-921-140-040		REW BUTTON LEVER
27	S1-921-140-050		FF,BUTTON REVER
28	S1-921-140-060		STOP BUTTON LEVER
29	S1-921-140-600		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENDER
32	S1-921-053-100		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-050-150		S REEL HUB
35	S1-921-050-220		BACK TENSION SPRING

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
36	S1-921-140-030		REC BUTTON LEVER
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-040		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-210		FLYWHEEL ASSY
43	S1-921-090-380		MAIN BELT
44	S1-921-120-590		MOTOR PULLEY
45	S6-002-030-220		MOTOR EG530AD-2B
46	S6-209-100-100		E HEAD PH-K380-MS1
47	S1-921-030-050		MG ARM
48	S1-921-140-210		REC BUTTON LEVER SPRING
49	S1-821-100-690		RECORD SAFETY LEVER
50	S1-821-128-9A0		MOTOR BRACKET
51	S1-821-010-500		PLAY BUTTON LEVER SPRING
52	S6-201-011-110		HEAD,RP7442ES-0951
A	S9-P04-200-310		C TAPPING SCREW 2-3
B	S1-921-120-020		MOTOR COLLER SCREW
C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
E	S9-P01-200-610		SCREW,M2-6
F	S9-B01-200-310		(+)BIND SCREW M2-3
G	S9-F08-200-710		AZIMUTH SCREW M2-7
H	S1-921-120-030		MB SCREW
I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
K	S9-W01-400-100		P WASHER 2-3.5-0.4
L	S9-W01-130-200		P WASHER 2.1-4-0.13





CD MECHANISM EXPLODED VIEW 1 / 1



## CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-05E		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070	DA11T3C	

## ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CH9-903-010		IB, U (ESF) B<U>
1	8A-CH9-905-010		IB, K (E) B<K>
1	8A-CH9-906-010		IB, EZ (9L) B<EZ>
2	87-099-726-010		PLUG, ADPTR CONV (K) <K>
	3	87-A80-081-010	AC CORD SET ASSY, EZ BLK<EZ, K>
	3	87-A80-109-010	AC CORD, HK7281 BLK U<U>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)  
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